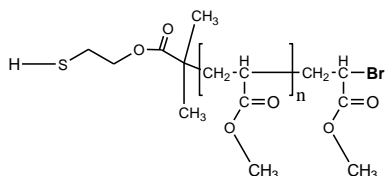Sample Name:
Poly (methyl acrylate), α-thiol-terminated

Sample # **P16380-MASH**

Structure:

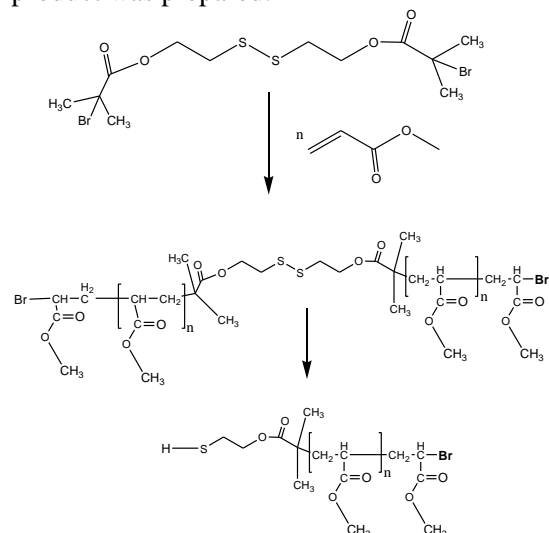**Composition:**

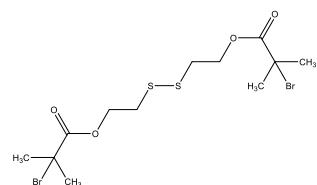|	
Mn x 10^3	1.2
PDI	1.3
Functionality	~90%

Synthesis procedure:
The polymer was synthesized by ATRP polymerization process. The following reaction scheme shows how the product was prepared:
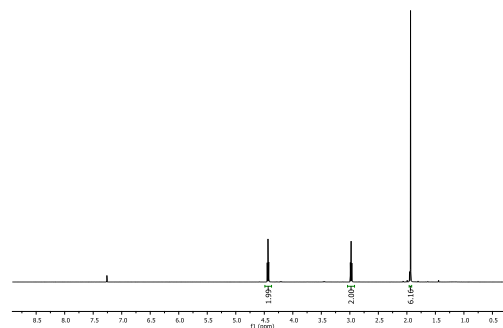

Characterization:
The polydispersity was characterized by size exclusion chromatography (SEC) and molecular weight was calculated from ^{1}H NMR. The functionality was confirmed by disappearance of methylene proton adjacent to disulfide bond at 2.9 ppm and appearance of thiol proton at 2.7 ppm.
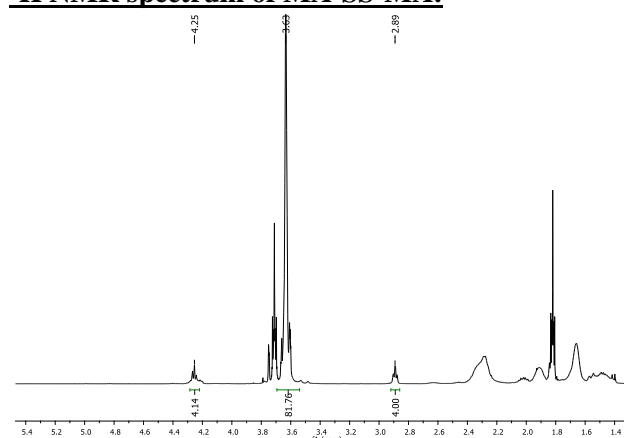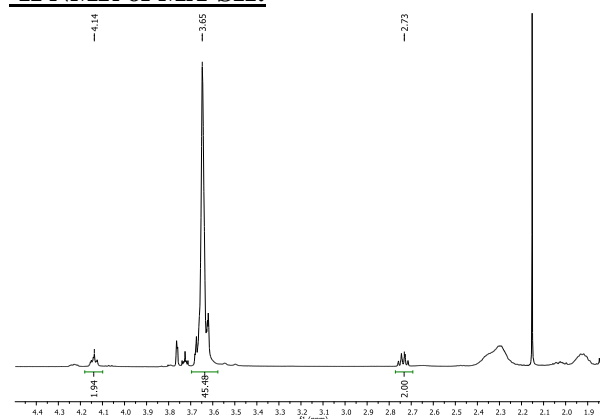
Structure of ATRP initiator:

^{1}H NMR of ATRP initiator:

^{1}H NMR spectrum of MA-SS-MA:

^{1}H NMR of MA-SH:

SEC elugram of MA-SS-MA and MA-SH:

(v.R-01)